### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization International Bureau

# PAIPO PMP

(43) International Publication Date 30 June 2005 (30.06.2005)

PCT

# (10) International Publication Number WO 2005/058947 A1

- (51) International Patent Classification7: C07K 14/395, C12N 15/81, 1/18
- (21) International Application Number:

PCT/EP2004/014577

(22) International Filing Date:

20 December 2004 (20.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

- 03078992.9 19 December 2003 (19.12.2003) EP
- (71) Applicants (for all designated States except US): DSM IP ASSETS B.V. [NL/NL]; Het Overloon 1, NL-6411 TE HEERLEN (NL). INSTITUTE NATIONAL DE LA RECHERCHE AGRONOMIQUE [FR/FR]; 147 rue de l'Université, F-75338 PARIS Cedex 07 (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PELLERIN, Patrice, Jacques, Marie [FR/FR]; 1 rue Camp de Fabre, F-34880 LAVÉRUNE (FR). BLONDIN, Bruno [FR/FR]; 5, rue des cigales, F-34070 MONTPELLIER (FR). SABLAYROLLES, Jean-Marie [FR/FR]; 476, rue des bouisses, F-34070 MONTPELLIER (FR). GUILLAUME, Carole [FR/FR]; 7, rue de la chicane, F-34680 Saint George d'Orques (FR).

- (74) Agents: HEUVEL, VAN, Margaretha et al.; DSM Intellectual Property, Delft Office (600-0240), P.O. Box 1, NL-2600 MA DELFT (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

### Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

005/058947 AJ

(54) Title: YEAST STRAINS WITH IMPROVED FRUCTOSE FERMENTATION CAPACITY

(57) Abstract: The present invention describes The present invention relates to yeast strains with improved carbohydrate fermentation capacity, in particular to strains transformed with a gene encoding an improved hexose transporter gene, more in particular a mutated HXT3 gene.